

Work Order ID 63881

PRIMARY ISSUE

Thursday, November 18, 2010 8:26:05 AM

Page 1

Item ID: D4275-1

Accept

Revision ID: PRELIM

Item Name: Fwd Beam

Start Date: 11/18/2010 Start Qty: 2.00

Required Date: 11/30/2010 Req'd Qty: 2.00

Reference:

Cust Item ID:

Customer:

POSITIVE
RECALL

Approvals:

Process Plan:

Date: 10-11-18

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run Start

Stop

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

D4275

PA1 PA3

MATERIAL CERTIFICATION
REQ'D UPON DELIVERY
10/11/23

100

0.00



Bandsaw

Jeaspa Bandsaw

BAND SAW

Memo

Cut Blank to 39.750"

Batch: M 107221

0.00

and 10/11/18

2 0

110

0.00



HAAS 1

HAAS CNC vertical machine #1

HAAS CNC VERTICAL MACHINING #1

Memo

1-Machine per folio FB006

DWG REV: PA1

FOLIO REV: 2

0.00

2 0

2- deburr rough edges



10/11/18




Work Order ID 63881

Thursday, November 18, 2010 8:26:05 AM

Page 2

Item ID:	D4275-1	Accept		Setup	Start	
Revision ID:	PRELIM				Stop	
Item Name:	Fwd Beam					
Start Date:	11/18/2010	Start Qty: 2.00		Cust Item ID:		
Required Date:	11/30/2010	Req'd Qty: 2.00		Customer:		
Reference:						

Approvals:	Process Plan:	Date:	Tooling:	Date:	Run	Start	
	QC:	Date:	SPC (Y/N):	Date:		Stop	

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120  QC Quality Control	QC2- Inspect parts off machine FAI/FAIB Memo <i>SA 10/11/18</i>	0.00 0.00				<u>2</u>	<u>0</u>		
130  QC Quality Control	QC8- Inspect parts - second check Memo	0.00 - Inspector to PPS Dry only 8/10/11/15 (2)							
140  HandFinish Hand Finishing	Chemical Conversion Coat per QSI005 4.1 Memo	0.00 0.00				<u>2</u>	<u>BR</u>	<u>10-11-19.</u>	

Abstract

Page 3

**Setup Start**

Step

Abstract

Cust Item ID:

1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

Customer:

Reference:

Run Start

[illegible]

Stop

**Insp.
Stamp**

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

0.00

1. The first step in the process is to identify the problem. This involves gathering information about the situation and understanding the needs of the stakeholders involved.

MUS 291

START. 9:30
DAILY 2:30

Powdercoat

Memo

QUENT. 3200

Powder Coating

MASK AS PER DWG

First: 10.00.

150

QC3- Inspect Part Finish

0.00

Memo

0.00

QC

Quality Control

180

Identify as per dwg & Stock Location: _____

0.00

1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

Memo

0.00

Packaging

Packaging

Work Order ID 63881

Thursday, November 18, 2010 8:26:05 AM

Page 4

Item ID: D4275-1

Accept

Revision ID: PRELIM

Item Name: Fwd Beam

Start Date: 11/18/2010 Start Qty: 2.00

Required Date: 11/30/2010 Req'd Qty: 2.00

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run Start

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

190

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

Rev. A. H.
10.11.23
overhaul Dimtol. ok.

MF
10-11-20

POSITIVE RECALL

EFFECTIVE

AUTH

RELEASED

DATE

Picklist Print

Page 1

Thursday, November 18, 2010 8:26:11 AM

Work Order ID: 63881



Parent Item: D4275-1



Parent Item Name: Fwd Beam

Start Date: 11/18/2010

Required Date: 11/30/2010

Start Qty: 2.00

Required Qty: 2.00

Comments: IPP REV:A NEW ISSUE 10-11-17 JLM VERIFIED BY:DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M6061T6B1.000X04.00 0		Purchased	No			100	f	69.7988	3.3125	6.973684			



6061-T6 Bar 1.00 x 4.00

Location

Loc Qty

Loc Code

MAT03

69.7988

→ 107221 -

58.58

114352

11.2188

6.973 on 11/18/10

DART AEROSPACE LTD		Work Order: 63881
Description: FWD Beam		Part Number: A9275-1
Inspection Dwg: A4215 Rev: PA3		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

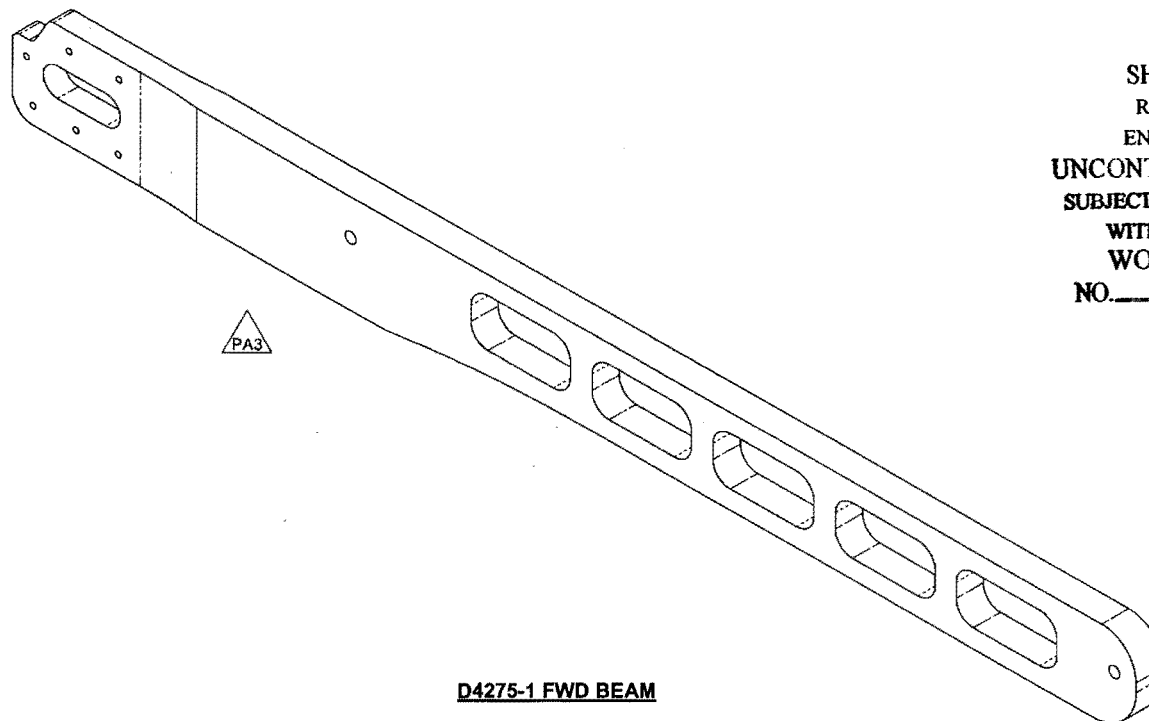
Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
3.50	±.030	3.500	/		Vern SD9	
.75	±.030	.752	/		"	
3.00	±.030	3.00	/		"	
2.75	±.030	2.752	/		"	
.75	±.030	.752	/		"	
.734	±.010	.732	/		"	
.108	±.010	.110	/		"	
39.48	±.030	39.48	/		"	
1.10	±.030	1.102	/		TM SD-01	
2.70	±.030	2.698	/		Vern SD9	
1.750	±.030	1.750	/		"	
.60	±.030	.600	/		"	
2.300	±.010	2.300	/		"	
Ø .191	±.006 -.001	Ø .196	/		"	
1.00	±.030	1.00	/		"	
Ø .381	±.000 -.001	Ø .381	/	NA	"	
3.50	±.030	3.50	/		"	
.65	±.030	.648	/		"	
1.70	±.030	1.70	/		"	
.95	±.030	.948	/		"	
8.280	±.010	8.280"	/		ED-4 TAP MEAS	
26.700	±.010	26.700"	/		ED-4 TAP MEAS	

10/11/23
JRAL
INSPECTION
OKAY

Measured by: <i>[Signature]</i>	Audited by: <i>[Signature]</i>	Preliminary Approval:
Date: 10/11/18	Date: 10/11/19 to PAS Day 14	Date:

Rev	Date	Change	Revised by	Approved
E	10.04.14	Added preliminary approval	KJ	

10.04.15



D4275-1 FWD BEAM

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 63881
BS10-11-18

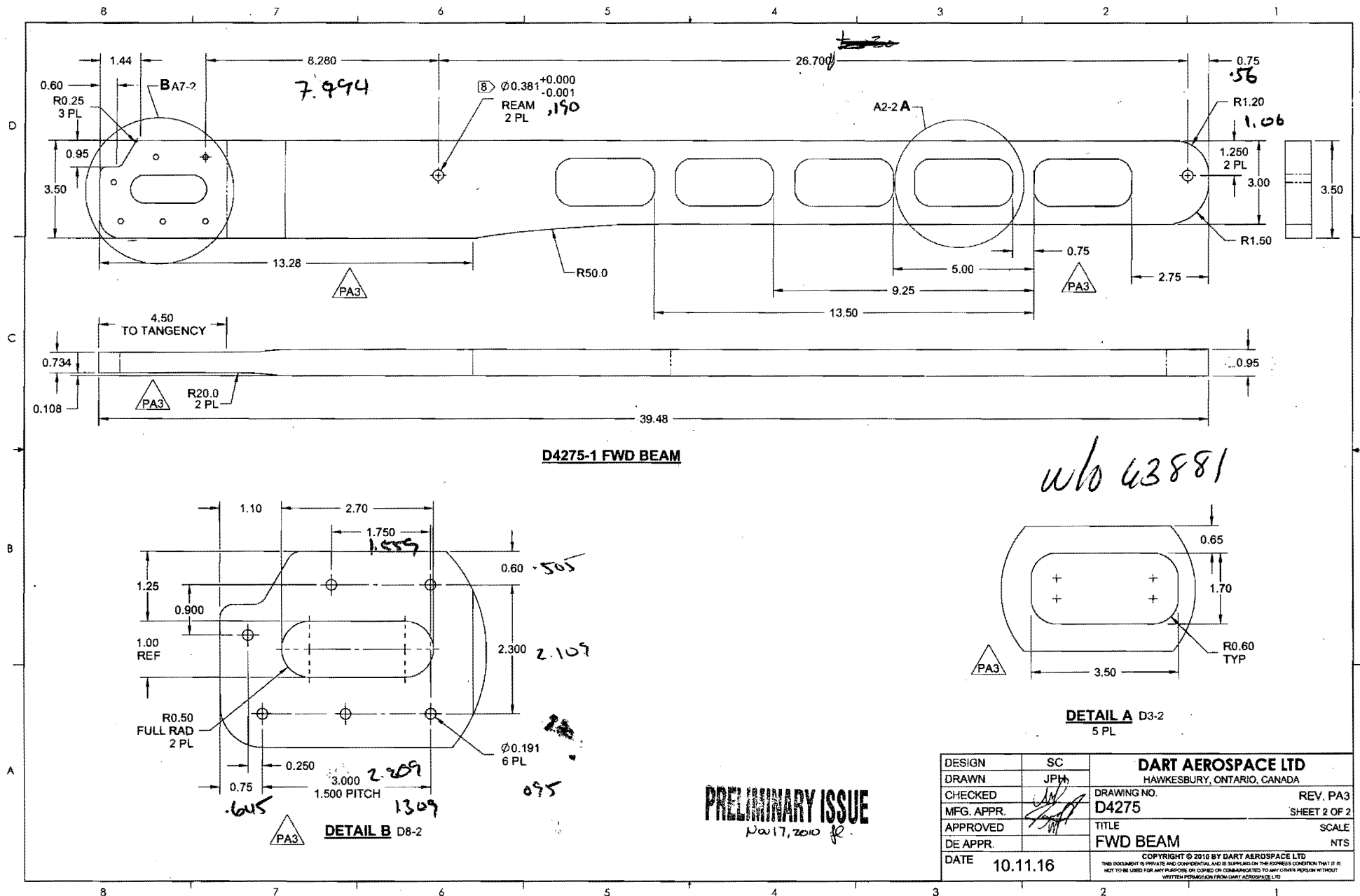
NOTES:

- 1) MATERIAL: 6061-T6/T651/T6510/T6511/T62 4.00 X 1.00 THICK ALUMINUM BAR
PER QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221
REF DART SPEC M6061T6B1.000X4.000
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
POWDER COAT WHITE (4.3.5.1) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 8.29 lbs
- 8) MASK HOLES PRIOR TO POWDER COAT.

PRELIMINARY ISSUE

Nov 17, 2010

PA3	CUTOUTS REMOVED/MODIFIED TO IMPROVE STIFFNESS	JPH	10.11.16
PA2	HOLE LOCATION LOWERED 0.200 (REF DETAIL C). NOTCH ENLARGED (D8-2)	JPH	10.11.16
PA1	PRELIMINARY	SC	10.11.12
REV.	DESCRIPTION	BY	DATE
DESIGN	SC	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	JPH		
CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. PA3
MFG. APPR.	<i>[Signature]</i>	D4275	SHEET 1 OF 2
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.		FWD BEAM	NTS
DATE	10.11.16	COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR REPRODUCED IN ANY FORM OR BY ANY MEANS WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	



DESIGN	SC	DART AEROSPACE LTD	
DRAWN	JPH	HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. PA3
MFG. APPR.		D4275	SHEET 2 OF 2
APPROVED		TITLE	SCALE
DE APPR.		FWD BEAM	NTS
DATE	10.11.16	COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS UNDERSTANDING THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR REPRODUCED IN ANY MANNER WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD	

Receiving Report

Date: 8/2/22 Batch No: 7107221
 Supplier: MAGNA Dart P/O: 5756

Packing Slip: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Release Note Attached: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
Invoice: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Waybill Attached: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Receipt: Cash <input type="checkbox"/> Cr <input checked="" type="checkbox"/>	Shipment Complete: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
	QC6 Inspection <u>2F</u> N/A <input type="checkbox"/>
	Work Order <input type="checkbox"/> N/A <input checked="" type="checkbox"/>

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments

Initials of receiver (if shipment OK) Level 12 [Signature]

Production/Admin: 08/02/25
 Date: 08/02/25
 Received/Costing: RCP 7134
 Initial: CF

Location

MAGNA

STAINLESS

Magna Stainless division de CSM Inc.

25 Meloche Ave., Dorval (Québec) H9P 2W2

Tel: (514) 631-1211 • Fax: (514) 631-0013

Sans frais / Toll free: 1-800-363-6646

ISO 9001-2000

N° FACTURE / INVOICE NO.

154946

VENDU À - SOLD TO
DART
DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKESBURY
ONTARIO
K6A 1K7

EXPÉDIÉ À - SHIPPED TO

MEME - SAME

RECEIVED FEB 28 2008

DATE	N° LIVR. - DEL. NO.	PAR - VIA	N° COMM. DU CLIENT CUST. ORDER NO.	CONDITIONS - TERMS	N° T.V.Q. - Q.S.T. NO.	N° T.P.S. - G.S.T. NO.	
Feb22/08	0164953	NIR:R-557065-1	5756		1213236471	381535899 P.T.	
QTE EXP. QTY SHIPPED	DESCRIPTION			POIDS EXPÉDIÉ WEIGHT SHIPPED	PRIX - PRICE	UNITÉ UNIT	TOTAL
4	6061-T6 ALUM FLAT 1 X 4 X 20' Heat # 41756				210.00	PCS	840.00
Sub-Total							840.00
G.S.T.							42.00

FRAIS D'ADMINISTRATION DE 11% PAR MOIS (18% PAR ANNÉE) SUR COMPTE PASSÉ DÙ.
LE PRÉSENT CONTRAT SERA RÉGI PAR LES LOIS DE LA PROVINCE DE QUÉBEC ET COMME
AYANT PRIS NAISSANCE DANS LE DISTRICT JUDICIAIRE DE MONTRÉAL.
ADMINISTRATION CHARGES OF 11% PER MONTH (18% PER YEAR) ON OVERDUE ACCOUNTS.
THE PRESENT AGREEMENT SHOULD BE GOVERNED BY THE QUEBEC LEGISLATION AND SHOULD
BE CONSIDERED AS HAVING ORIGINATED IN THE JUDICIAL DISTRICT OF MONTRÉAL.

TOTAL →

882.00

Dart Aerospace Ltd

Dart Aerospace Ltd
1270 Aberdeen St
Hawksbury, Ontario K6A 1K7
Phone: (613) 632-3336
Fax: (613) 632-4443

Receiving Slip

Date Feb 25, 2008	Page 1
Receipt Number RCP00007134	

Purchase From:

Magna Stainless
525 avenue Meloche
Dorval, QC H9P 2W2
Canada

Ship To:

Main Finished Goods Location
Dart Aerospace Ltd
1270 Aberdeen St
Hawksbury, Ontario K6A 1K7

Reference	Description	Contact	Vendor Number	PO Number
			VC-MAG002	PO00005756

Vendor Item Number	Item Number	Description	Qty. Received	UOM	Unit Cost	Extended Cost	Arrival Date
	M6061T6B1000X0	6061-T6 Bar 1.0" x 4.0" PER AMS-QQ-A-200/8 OR AMS 4150 PER AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 MATERIAL: 6061-T6 OR 6061-T650/T6510/T6511/T62 BAR B/N107221	80.0000	f	10.500000	840.00	Feb 25, 2008

Comments:



MAGNA STAINLESS DIV. DE CSM INC.
525 MELOCHE AVE.
DORVAL, QUEBEC H9P 2W2
(514) 631-1211 FAX: (514) 631-0013

COMMANDE
SALES ORDER

0164953

INDU À /
OLD TO:

LIVRÉ À /
SHIP TO:

INSTRUCTIONS SPÉCIALES / SPECIAL INSTRUCTIONS

DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKESBURY
ONTARIO

K6A 1K7

COMMANDE SALES ORDER	CODE DE CLIENT CUSTOMER CODE	BON D'ACHAT DU CLIENT CUSTOMER PURCHASE ORDER	N° DE TÉLÉPHONE DU CLIENT CUSTOMER TELEPHONE NUMBER	N° DE TÉLÉCOPIEUR DU CLIENT CUSTOMER FAX NO.	
0164953	DART	5756	613 632-5200	632-4443	
LIVRÉ VIA - SHIP VIA	CONDITIONS - TERMS	DATE COMMANDE DATE ORDERED	DATE REQUISE DATE REQUIRED	DATE LIVRÉE DATE DELIVERED	N° DU VENDEUR SALES REP NO.
NIR:R-557065-1	NET 30	Feb-21-08	Feb-22-08		15 26 EB
CONTRÔLE DE QUALITÉ DU CLIENT REQUIS CUSTOMER QUALITY RELEASE REQ'D		CONTRÔLE DE QUALITÉ DE MAGNA REQUIS MAGNA QUALITY RELEASE REQ'D		PRÉPAYÉ PREPAID	À PERCEVOIR COLLECT
QUALITÉ - QUALITY	UNITÉ UNIT	N° DE COULÉE HEAT NUMBER	DESCRIPTION	QTE LIVRÉE QTY SHIPPED	INSTRUCTIONS DE L'USINE PLANT INSTRUCTIONS
COMMANDE ORDERED	A VENDRE - B/O				
4	pcs		6061-T6 ALUM FLAT 1 X 4 X 20'		4 pcs x20 Pc 8/10
TOTAL :					376 LBS

NOMBRE DE PAQ.
NUMBER OF BOL'S

MTR-AVEC COMMANDE
MTR'S-WITH ORDER ☒

POSTE
MAIL ☐

TÉLÉCOPIEUR
FAX ☐

PACKING SLIP / BON D'EMBALLAGE

Page: 1

08:49:12

20080221

N° DE COULÉE ÉTAMPER SUR LE CÔTÉ
HEAT NO. STAMP ONE END ☐

MATÉRIEL REÇU EN BON ÉTAT PAR / MATERIAL RECEIVED IN GOOD CONDITIONS BY:

DART

Purchase Order

Date Feb 21, 2008	Page 1
Purchase Order Number PO00005756	

Dart Aerospace Ltd
1270 Aberdeen St
Hawksbury, Ontario K6A 1K7
Phone: (613)632-9577
Fax: (613)632-1053

FAKED
FORWARDED

Vendor Address:

Magna Stainless
525 avenue Meloche
Dorval, QC H9P 2W2
Canada
Phone (800) 363-6646
Fax (514) 631-0013

Ship To:

Main Finished Goods Location
Dart Aerospace Ltd
1270 Aberdeen St
Hawksbury, Ontario K6A 1K7

Reference	Contact	Vendor Number	PO Date	Terms	Ship Via	Expected Arrival
		VC-MAG002	Feb 21, 2008	N30	yours	Feb 22, 2008

Qty. Ordered	Item Number	Description	Expected Arrival	Drop-Ship	Unit Cost	UOM	Extended Price
80.0000	M6061T6B1000X040	6061-T6 Bar 1.0" x 4.0" Comments: MATERIAL 6061-T6 OR 6061-T650/T6510/T6511/T62 BAR PER AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 PER AMS-QQ-A-200/8 OR AMS 4160	2/22/2008	No	10.500000	LF	840.00

MATERIAL CERTIFICATION
REQ'D UPON DELIVERY

Comments:**Tax Summary:**

GST 42.00
ONTPST 0.00

Less:
included tax

0.00

Subtotal

840.00

Total tax

42.00

Total purchase order in

CAD Dollars

882.00

Entered By: CL CLAVOIE

Approved By:



325 rue Avro
Pointe-Claire QC H9R 5W3

Téléphone (514) 697-5120
Fac-simile (514) 694-8310

Test de dureté Rockwell Rockwell Hardness Test

Client / Customer : **MAGNA STAINLESS INC.**

Adresse / Address : **525, Meloche
Dorval (Québec)
H9P 2W2**

commande Indalex / Indalex order # : **7100595**

bon de commande / Purchase order # : **071484-EB**

de matrice / Die # : **MS 16386** Description : **4.00" X 1.00" FLAT BAR**

Alliage & trempage / Alloy & temper : **6061 T6**

Contrôle / Control # : **58937-1**

Coulée / Cast # : **41756**

Dureté Rockwell E / Min. requis / Max. permis /
Rockwell E hardness : **93 HRE** Min. required : **88 HRE** Max. permitted : **100 HRE**

Composition chimique typique / Typical chemical composition :

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
6063	0.20 - 0.60	0.35 Max	0.10 Max	0.10 Max	0.45 - 0.90	0.10 Max	0.10 Max	0.10 Max
6005	0.60 - 0.90	0.35 Max	0.10 Max	0.10 Max	0.40 - 0.60	0.10 Max	0.10 Max	0.10 Max
6005A	0.66 - 0.74	0.14 - 0.28	0.08 - 0.16	0.18 - 0.26	0.46 - 0.54	0.03 Max	0.05 Max	0.05 Max
6061	0.40 - 0.80	0.70 Max	0.15 - 0.40	0.15 Max	0.80 - 1.20	0.04 - 0.35	0.25 Max	0.15 Max
6351	0.7 - 1.3	0.5 Max	0.10 Max	0.40 - 0.80	0.40 - 0.80	—	0.20 Max	0.20 Max

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme ASTM B-221 excepté pour la section 8.2 (nombre de spécimen) et AMS QQA 200/8 excepté pour la section 4.2.3.1 (nombre de spécimen) qui sont déterminés par les exigences du client.

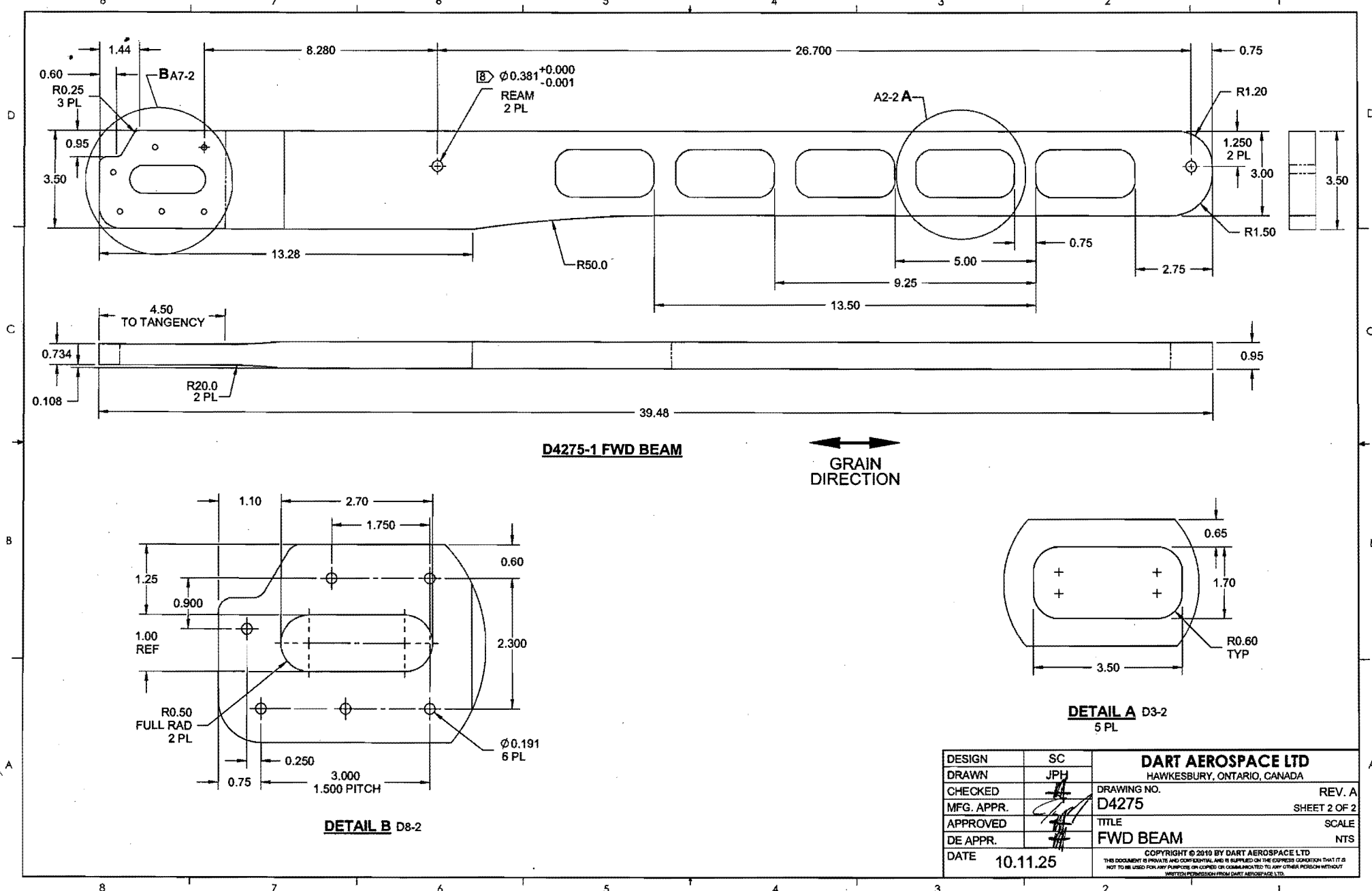
We hereby certify that the material supplied meets the chemical properties as published by the ASTM B-221 except for section 8.2 (number of specimen) and AMS QQA 200/8 except for section 4.2.3.1 (number of specimen) which is determined by customer requirement.





Sincèrement vôtre,
Yours truly,

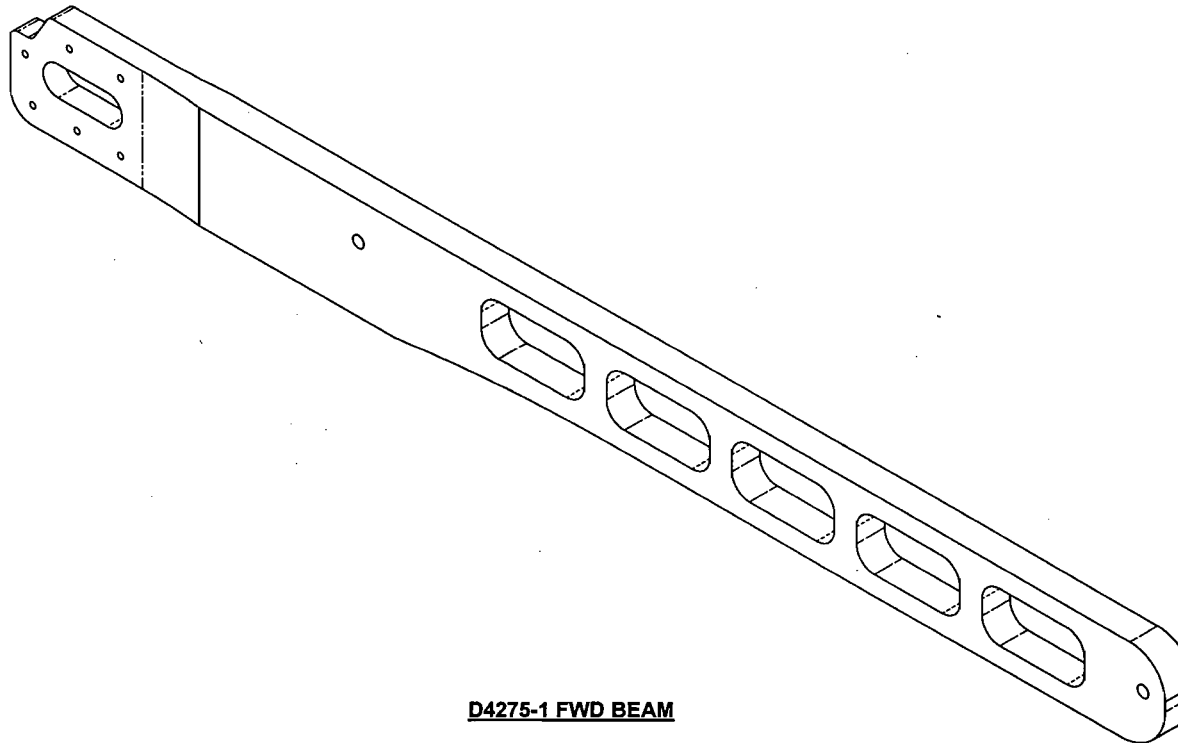
date : **2007-10-18**

Bruno Morency
Technicien de la qualité
Quality technician

CA 691







DESIGN	SC	DART AEROSPACE LTD	
DRAWN	JPH	HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.		D4275	SHEET 2 OF 2
APPROVED		TITLE	SCALE
DE APPR.		FWD BEAM	NTS
DATE	10.11.25	COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS COVENANT THAT IT IS NOT TO BE USED FOR ANY PURPOSES OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT	



D4275-1 FWD BEAM

NOTES:

- 1) MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR
PER QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221
REF DART SPEC M6061T6B
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
POWDER COAT WHITE (4.3.5.1) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 8.29 lbs
- 8) MASK HOLES PRIOR TO POWDER COAT.

A	NEW ISSUE		SC	10.11.25
REV.	DESCRIPTION		BY	DATE
DESIGN	SC	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA DRAWING NO. D4275 TITLE FWD BEAM COPYRIGHT © 2010 BY DART AEROSPACE LTD <small>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	REV. A	
DRAWN	JPH		SHEET 1 OF 2	
CHECKED			SCALE	
MFG. APPR.			NTS	
APPROVED				
DE APPR.				
DATE	10.11.25			